



SAFETY DATA SHEET

HIGH TEMPERATURE ADHESIVE FIRE CEMENT - FIREBRAND

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Revision No: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: HIGH TEMPERATURE ADHESIVE FIRE CEMENT - FIREBRAND

CAS number: 1344-09-8

EINECS number: 215-687-4

Use of substance / preparation: High Temperature Fire Cement.

Company name: Minco UK Ltd

Tofts Farm Industrial Estate

Brenda Road

Hartlepool

TS25 2BS

United Kingdom

Tel: +44 (0) 1429 273 252

Fax: +44 (0) 1429 232 611

Emergency tel: +44 (0) 7791 789 495

2. HAZARDS IDENTIFICATION

Main hazards: Irritating to skin. Risk of serious damage to eyes.

Other hazards: Alkaline Solution. Irritating to skin. Risk of serious damage to eyes.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Contains: Contains Alkaline Sodium Silicate Solution - Molar Ratio $3.2 \text{ SiO}_2:\text{Na}_2\text{O}$.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Obtain medical attention if symptoms develop.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Do not induce vomiting. Wash out mouth with water. Drink 1 or 2 glasses of water or milk. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Not Applicable. Aqueous Solution. Non Combustible. Suitable extinguishing media for the surrounding fire should be used.

[cont...]

Protection of fire-fighters: Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Wear Appropriate Protective Clothing. Wear Suitable Eye Protection. Material can create slippery conditions underfoot.

Environmental precautions: Do not discharge into drains or rivers. If material enters drains, dilute as much as possible with water and notify the authorities.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a suitable container. Refer to section 13 of SDS for suitable method of disposal.

7. HANDLING AND STORAGE

Handling requirements: Avoid contact with eyes and skin. Eye wash facilities should be readily available. Wear suitable protective equipment. See Section 8 - Personal Protection. General good safety practices should be followed in the handling and use of this product. NO SMOKING OR EATING OR DRINKING should be allowed in areas of storage or use.

Storage conditions: Store in cool, well ventilated area. Storage temperature should be below 50 C. Prevent from freezing. Avoid incompatible materials and conditions - see section 10 of SDS.

Suitable packaging: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Local exhaust ventilation if solution is sprayed. Ensure good work practices. Wash splashes immediately. DO NOT eat, drink or smoke in the workplace.

Respiratory protection: Respiratory protection is required if solution is sprayed. Consult British Standards BS2091 and BS4275 and HSE publication HS(G)53 for further advice on respiratory protective equipment.

Hand protection: Gloves (alkali-resistant).

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: PVC apron.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Putty/Dough

Colour: Brown or Black

Odour: Odourless

Evaporation rate: Slow

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Binder Soluble in Water/Filler Insoluble

Viscosity: Viscous

Relative density: 2.0 - 3.0

pH: >11.0

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Materials to avoid: This product may react violently with acids. This product will react with aluminium, zinc, tin & their alloys, evolving hydrogen.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: HIGH TEMPERATURE ADHESIVE FIRE CEMENT - FIREBRAND
ORL RAT LD50 1600-3200 mg/kg

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Mobility: Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica. The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

Persistence and degradability: Soluble Silicates upon dilution rapidly depolymerise into molecular species indistinguishable from natural dissolved silica.

Bioaccumulative potential: No data available.

Other adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal operations: Because of the alkalinity, it is recommended that this material is classified as hazardous waste under EEC Directive 91/689/EEC.

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION**ADR / RID**

Shipping name: UN Class: Not classified as 'Dangerous Goods' under the United Nations Transport Recommendations.

IMDG / IMO**IATA / ICAO****15. REGULATORY INFORMATION**

Hazard symbols: Irritant.



Risk phrases: R38: Irritating to skin.
R41: Risk of serious damage to eyes.

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- Safety phrases:** S1/2: Keep locked up and out of the reach of children.
S3/7: Keep container tightly closed in a cool place.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27/28: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of warm soapy water.
S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.
S60: This material and its container must be disposed of as hazardous waste.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other information: All the alkali silicates, even those that are not classified as Dangerous Substances, are alkaline chemicals. Therefore contact with eyes, skin and clothes should be avoided and the usual procedures for handling all chemicals should be followed.

Shelf life - 12 months

This product is ROHS compliant.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.